

# Converting Colors

XYZ(49.6063, 68.6667,  
105.2472)

Have a look what the booklet for  
XYZ(49.6063, 68.6667, 105.2472)  
contains.

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# Color

**XYZ(49.7512, 68.9499,  
105.2942)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EEEEFF
RGB	46, 238, 255
RGB Percent	18%, 93%, 100%
CMY	0.8195, 0.0667, 0.0000
CMYK	0.82, 0.07, 0.00, 0.00
HSL	185°, 100%, 59%
HSV	185°, 82%, 100%
XYZ	49.7512, 68.9499, 105.2942
YIQ	182.5300, -119.8890, -35.4170

# Conversions

## Conversions Part 2

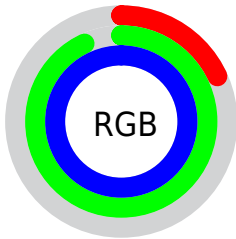
<b>Format</b>	<b>Color</b>
<b>RYB</b>	46, 146, 255
Decimal	3075839
CIELab	86.48, -38.76, -21.09
CIElCh	86, 44.130, 208.549
Yxy	68.9499, 0.2221, 0.3078
Android (android.graphics.Color)	4281265919 (0xFF2EEEFF)
YUV	182.5300, 35.7277, -119.7368
Hunter-Lab	83.0361, -38.3646, -17.0576

# Details

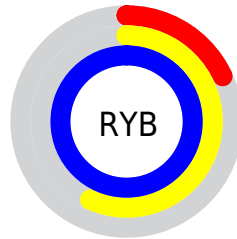
The XYZ color **49.7512, 68.9499, 105.2942** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **43.5120, 25.0143, 5.1217**, and the grayscale version is **44.6143, 46.9377, 51.1152**.

A 20% lighter version of the original color is **63.0159, 83.4858, 107.4008**, and **26.7169, 37.1250, 59.1838** is the 20% darker color. If you saturate the color by 10%, you get **48.3243, 67.3245, 105.0557**, and if you desaturate by 10%, it is **51.8697, 70.9450, 105.5677**.

# Distribution



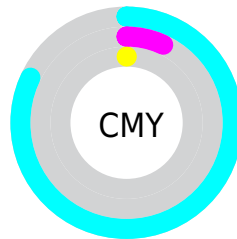
- Red (18%)
- Green (93%)
- Blue (100%)



- Red (18%)
- Yellow (57%)
- Blue (100%)



- Cyan (82%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)



- Cyan (82%)
- Magenta (7%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7512, 68.9499, 105.2942 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 49.7512, 68.9499, 105.2942 by changing the saturation by 10% instead.



49.7512, 68.9499,  
105.2942

49.7512, 68.9499,  
105.2942

376.1603,  
456.8543, 598.4273

35.4327, 50.6709,  
80.0878

89.0002, 117.7100,  
170.5289

24.1645, 35.9468,  
59.2640

114.6614,  
148.9599, 211.3943

15.5811, 24.3931,  
42.4043

144.8342,  
185.3023, 258.3164

9.3172, 15.6255,  
29.0901

179.8840,  
227.1214, 311.7139

5.0074, 9.2595,  
18.9028

220.1762,  
274.8018, 372.0051

2.2864, 4.9108,  
11.4240

266.0761,

0.7877, 2.1950,

328.7278, 439.6088

6.2350

317.9490,  
389.2838, 514.9433

■ 0.0000, 0.7173,  
2.9174

■ 0.0000, 0.0000,  
1.0526

■ 49.7512, 68.9499,  
105.2942

■ 49.7512, 68.9499,  
105.2942

■ 48.3243, 67.3245,  
105.0557

■ 51.8697, 70.9450,  
105.5677

■ 47.5470, 66.2141,  
104.8823

■ 54.7791, 73.3568,  
105.8799

■ 58.5684, 76.2326,  
106.2352

■ 63.3132, 79.6114,  
106.6373

69.0810, 83.5281,  
107.0893

75.9332, 88.0142,  
107.5941

83.9261, 93.0990,  
108.1543

93.1124, 98.8095,  
108.7723

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



47.7952, 68.9499, 73.6588



49.7512, 68.9499, 105.2942



55.8112, 68.9499, 134.0131

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



49.7512, 68.9499, 105.2942



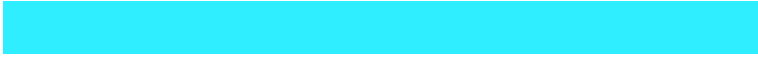
83.7593, 68.9499, 108.4169



66.0336, 68.9499, 31.7127

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



49.7512, 68.9499, 105.2942



43.5120, 25.0143, 5.1217

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



76.3268, 68.9499, 36.5854



49.7512, 68.9499, 105.2942



87.1964, 68.9499, 76.5086

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



49.7512, 68.9499, 105.2942



75.3769, 68.9499, 136.1208



84.3466, 68.9499, 51.2728



56.5891, 68.9499, 35.7101

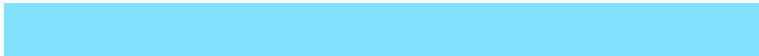


# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.7512, 68.9499, 105.2942



61.7120, 68.9499, 144.8039



84.3466, 68.9499, 51.2728



69.5123, 68.9499, 32.3370

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



49.7531, 68.9523, 105.2946



73.7270, 86.5852, 107.4345



37.7020, 72.4270, 16.2610



15.2638, 18.1946, 22.9574



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.7531, 68.9523, 105.2946



47.7293, 66.4838, 104.9248



28.0634, 25.5729, 98.0647



18.4210, 20.2137, 23.1807



24.8972, 34.7039, 54.8209



2.4600, 3.4507, 5.3497



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



57.6509, 29.3888, 83.5256



56.2439, 27.3501, 80.6662



55.0882, 48.1668, 8.9805



18.7252, 18.2734, 22.4359



29.3551, 14.2314, 42.1162

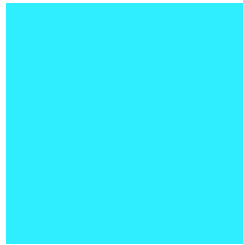


2.8763, 1.3929, 4.1960



# Previews

## White Background



This preview shows how the XYZ color 49.7512, 68.9499, 105.2942 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

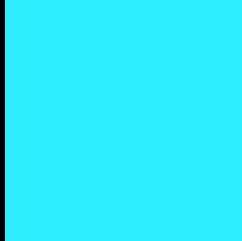
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7512, 68.9499, 105.2942 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 49.7512, 68.9499, 105.2942

## Background



This preview shows how black text looks on a background with the XYZ color 49.7512, 68.9499, 105.2942.



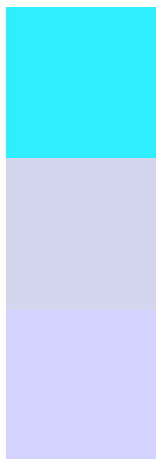
This preview shows how white text looks on a background with the XYZ color 49.7512, 68.9499,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

49.7512, 68.9499, 105.2942

### Protanopia

66.2382, 67.6694, 91.2317

### Deuteranopia

68.4956, 67.8056, 104.0854



## Tritanopia

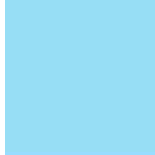
50.9327, 69.1280, 105.2663

# Trichromacy



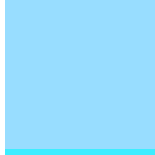
## Original Color

49.7512, 68.9499, 105.2942



## Protanomaly

55.3652, 65.4144, 96.0944



## Deuteranomaly

56.8553, 65.6083, 104.2748



## Tritanomaly

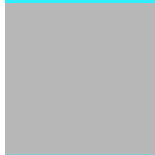
50.3208, 68.8125, 105.2377

# Monochromacy



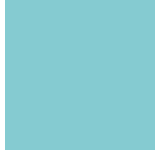
## Original Color

49.7512, 68.9499, 105.2942



## Achromatopsia

45.0092, 47.3531, 51.5676



## Achromatomaly

42.5374, 52.3019, 68.1749

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7512, 68.9499, 105.2942 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(46, 238, 255)` looks like.

```
.text, #text, p{  
    color:rgb(46, 238, 255)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(46, 238, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 238, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7512, 68.9499, 105.2942 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(46, 238, 255) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(46, 238, 255) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(46, 238, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 238, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 238, 255);  
box-shadow:4px 4px 4px 4px rgb(46, 238,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7512, 68.9499, 105.2942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 238, 255) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(46, 238,  
255) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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